

# Converting Colors

$Y_{xy}(49.7372, 0.2436, 0.3971)$

Have a look what the booklet for  
Yxy(49.7372, 0.2436, 0.3971)  
contains.

<b>Yxy(49.9141, 0.2437, 0.3974)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(49.9141, 0.2437, 0.3974)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D4A8
RGB	0, 212, 168
RGB Percent	0%, 83%, 66%
CMY	1.0000, 0.1686, 0.3411
CMYK	1.00, 0.00, 0.21, 0.17
HSL	168°, 100%, 42%
HSV	168°, 100%, 83%
XYZ	30.6091, 49.9141, 45.0784
YIQ	143.5960, -112.2280, -58.6280

# Conversions

## Conversions Part 2

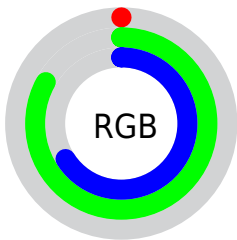
Format	Color
<a href="#">RYB</a>	<a href="#">0, 118, 212</a>
Decimal	<a href="#">54440</a>
CIELab	<a href="#">76.02, -53.90, 9.59</a>
CIElCh	<a href="#">76, 54.748, 169.914</a>
Yxy	<a href="#">49.9141, 0.2437, 0.3974</a>
Android (android.graphics.Color)	<a href="#">4278244520</a> ( <a href="#">0xFF00D4A8</a> )
YUV	<a href="#">143.5960, 12.0312, -125.9337</a>
Hunter-Lab	<a href="#">70.6499, -46.3021, 11.6247</a>

# Details

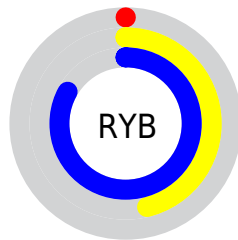
The Yxy color **49.9141, 0.2437, 0.3974** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **14.1798, 0.6074, 0.3120**, and the grayscale version is **27.7064, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.8510, 0.2529, 0.3678**, and **25.0379, 0.2480, 0.4129** is the 20% darker color. If you saturate the color by 10%, you get **49.9186, 0.2437, 0.3974**, and if you desaturate by 10%, it is **50.2470, 0.2432, 0.3899**.

# Distribution



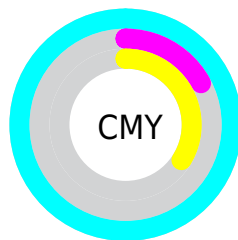
- Red (0%)
- Green (83%)
- Blue (66%)



- Red (0%)
- Yellow (46%)
- Blue (83%)



- Cyan (100%)
- Magenta (0%)
- Yellow (21%)
- Black (17%)




- Cyan (100%)
- Magenta (17%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.9141, 0.2437, 0.3974 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 49.9141, 0.2437, 0.3974 by changing the saturation by 10% instead.




 49.9141, 0.2437,  
0.3974


 49.9141, 0.2437,  
0.3974


386.3299, 0.2782,  
0.3623

 35.3451, 0.2352,  
0.4064


 90.0476, 0.2562,  
0.3845

 23.9289, 0.2242,  
0.4181


 116.3809, 0.2609,  
0.3797


 15.2809, 0.2098,  
0.4338

 147.4045, 0.2649,  
0.3756

 9.0167, 0.1900,  
0.4562

 183.5027, 0.2683,  
0.3722

 4.7521, 0.1614,  
0.4901

 225.0600, 0.2713,  
0.3692

 2.1026, 0.0982,  
0.5586

272.4607, 0.2739,

 0.6661, 0.0000,

0.3666

0.9238

326.0892, 0.2761,  
0.3644

■ 0.0000, 0.0000,  
0.0000

■ 49.9141, 0.2437,  
0.3974

■ 49.9141, 0.2437,  
0.3974

■ 49.9186, 0.2437,  
0.3974

■ 50.2470, 0.2432,  
0.3899

■ 50.7585, 0.2443,  
0.3823

■ 51.5124, 0.2473,  
0.3746

■ 52.5415, 0.2522,  
0.3671

■ 53.8733, 0.2590,  
0.3598

■ 55.5319, 0.2675,  
0.3527

■ 57.5391, 0.2774,  
0.3461

■ 59.9145, 0.2884,  
0.3399

■ 62.6766, 0.3003,  
0.3342

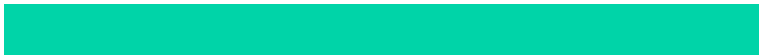
# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



49.9141, 0.3102, 0.4561



49.9141, 0.2437, 0.3974



49.9141, 0.1991, 0.3179

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



49.9141, 0.2437, 0.3974



49.9141, 0.2361, 0.2164



49.9141, 0.4611, 0.3758

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



49.9141, 0.2437, 0.3974



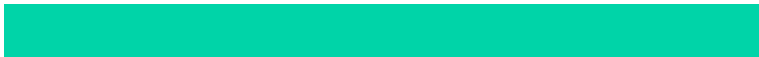
14.1798, 0.6074, 0.3120

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



49.9141, 0.4395, 0.3206



49.9141, 0.2437, 0.3974



49.9141, 0.3007, 0.2341

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



49.9141, 0.2437, 0.3974



49.9141, 0.1962, 0.2221



49.9141, 0.3774, 0.2709



49.9141, 0.4374, 0.4284



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.9141, 0.2437, 0.3974



49.9141, 0.1855, 0.2730



49.9141, 0.3774, 0.2709



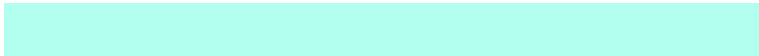
49.9141, 0.4592, 0.3572

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



49.9186, 0.2437, 0.3974



87.2839, 0.2771, 0.3463



47.6698, 0.3074, 0.5941



18.3917, 0.2727, 0.3491



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



49.9186, 0.2437, 0.3974



75.7890, 0.2439, 0.3982



27.1903, 0.1981, 0.2332



14.0617, 0.3010, 0.3339



30.8299, 0.2434, 0.3963



1.8709, 0.2398, 0.3833



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



14.1798, 0.6074, 0.3120



21.5161, 0.6096, 0.3132



17.2370, 0.6017, 0.3605



12.4625, 0.3259, 0.3242



8.7651, 0.6042, 0.3102

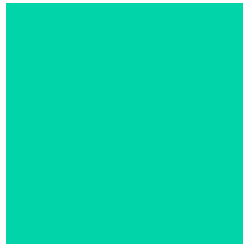


0.5409, 0.5557, 0.2835



# Previews

## White Background



This preview shows how the Yxy color 49.9141, 0.2437, 0.3974 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

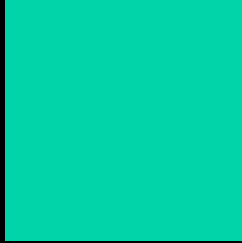
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.9141, 0.2437, 0.3974 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

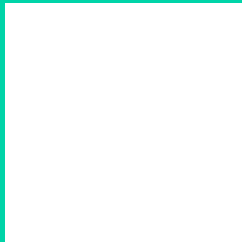
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.9141, 0.2437, 0.3974**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.9141, 0.2437, 0.3974.



This preview shows how white text looks on a background with the Yxy color 49.9141, 0.2437, 0.3974.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

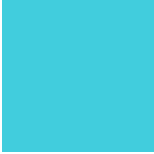
49.9141, 0.2437, 0.3974

### Protanopia

48.8002, 0.3465, 0.3674

### Deuteranopia

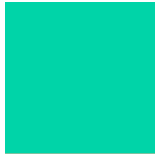
49.1476, 0.3415, 0.3352



## **Tritanopia**

50.0069, 0.2271, 0.3065

# Trichromacy



## Original Color

49.9141, 0.2437, 0.3974



## Protanomaly

45.9283, 0.2847, 0.3810



## Deuteranomaly

45.5834, 0.2812, 0.3580



## Tritanomaly

49.8474, 0.2311, 0.3375

# Monochromacy



## Original Color

49.9141, 0.2437, 0.3974



## Achromatopsia

27.8894, 0.3127, 0.3290



## Achromatomaly

32.9512, 0.2632, 0.3562

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.9141, 0.2437, 0.3974 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 212, 168)` looks like.

```
.text, #text, p{  
    color:rgb(0, 212, 168)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 212, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 212, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 49.9141, 0.2437, 0.3974 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 212, 168) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(0, 212, 168) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(0, 212, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 212, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 212, 168);  
box-shadow:4px 4px 4px 4px rgb(0, 212,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.9141, 0.2437, 0.3974 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 212, 168) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 212,  
168) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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